



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Huang et al.  
Serial No. : 09/702,280  
Filed : October 30, 2000  
Title : OPTICAL POLARIZATION BEAM COMBINER/SPLITTER

Art Unit : 2872  
Examiner : C. Curtis

Commissioner for Patents  
Washington, D.C. 20231

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REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), FINISAR, INC., a Delaware corporation having a place of business in Sunnyvale, California, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

☐ An assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_, Frame \_\_ on \_\_.

☒ A chain of title from the inventors of the patent application identified above, to the current assignee as shown below.

1. From Ping Xie and Yonglin Huang to New Focus, Inc. recorded in the Patent and Trademark Office at Reel 010266, Frame 0228 on 9/27/1999.

2. From New Focus, Inc. to Finisar, Inc.. A copy of said assignment is attached hereto.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

September 9, 2002  
Date of Deposit  
Signature

Gina Maldonado  
Typed or Printed Name of Person Signing Certificate

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

|                      |                 |                        |                 |
|----------------------|-----------------|------------------------|-----------------|
| Frederick H. Rabin   | Reg. No. 24,488 | Andrew T. D'Amico      | Reg. No. 33,375 |
| John B. Pegram       | Reg. No. 25,198 | Stephan J. Filipek     | Reg. No. 33,384 |
| David R. Francescani | Reg. No. 25,259 | Samuel Borodach        | Reg. No. 38,388 |
| William J. Hone      | Reg. No. 26,739 | Chris T. Mizumoto      | Reg. No. 42,899 |
| Richard P. Ferrara   | Reg. No. 30,632 | Stuart Macphail, Ph.D. | Reg. No. 44,217 |
| Andrew N. Parfomak   | Reg. No. 32,431 | Paul A. Levy           | Reg. No. 45,748 |

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to:

PAUL A. LEVY  
FISH & RICHARDSON P.C.  
45 Rockefeller Plaza, Suite 2800  
New York, New York 10111

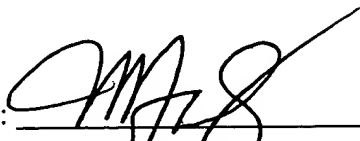
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Applicant : Huang et al.  
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Filed : October 30, 2000  
Page : 3

Attorney's Docket No.: 13837-015004

Respectfully submitted,

Date: JUNE 26, 2002

Signature: 

Name: MARK FARLEY

Title: VP of ENGINEERING, FINISAR CORP.

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## PATENT ASSIGNMENT AGREEMENT

WHEREAS, the undersigned, New Focus, Inc., a Delaware corporation, having a place of business at 5215 Hellyer Avenue, San Jose, California 95138 (the "Assignor") is the owner of the entire rights, title and interest in the patent properties listed on Schedule A (the "Assigned Patent Properties"); and

WHEREAS, Finisar Corporation, a Delaware corporation, having a place of business at 1308 Moffett Park Drive, Sunnyvale, California 94089 (the "Assignee"), is desirous of acquiring the Assigned Patent Properties and any rights in the Assigned Patent Properties for the good and valuable consideration set forth in that Intellectual Property Agreement by and between Assignor and Assignee dated May 10, 2002;

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by Assignor to have been received in full from Assignee:

1. Effective upon execution, Assignor does hereby sell, assign, transfer and convey unto Assignee, all of its rights, title and interest together with the benefits and privileges in and to all inventions and discoveries set forth in the Assigned Patent Properties.
2. Assignor hereby covenants and agrees to cooperate with Assignee to enable Assignee to obtain, sustain, enforce and enjoy to the fullest extent all rights, title and interest herein conveyed in any country. Such cooperation by Assignor shall include production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed reasonably necessary or desirable by Assignee, (a) for perfecting in Assignee the rights, title and interest herein conveyed; (b) for filing and prosecuting substitute, divisional, continuing or additional applications covering the Assigned Patent Properties; (c) for filing and prosecuting applications for re-issuance of any of the Assigned Patent Properties; (d) for interference or other priority proceedings involving the Assigned Patent Properties; and (e) for legal proceedings involving the Assigned Patent Properties for infringement actions and court actions; provided, however, that the expense incurred by Assignor in providing such cooperation shall be paid for by Assignee. In the event that Assignee is unable for any reason to secure Assignor's signature to any document required to apply for or execute any patent applications or patents (including improvements, renewals, extensions, continuations, divisions or continuations in part thereof), Assignor hereby irrevocably designates and appoints Assignee and its duly authorized officers and agents as Assignor's agent and attorney-in-fact to act for and in their behalf, and instead of Assignor, to execute and file any such applications and to do all other lawfully permitted acts to further the perfection, prosecution and issuance of patents or other rights therein with the same legal force and effect as if executed by Assignor.
3. Assignor warrants that they have not knowingly conveyed and shall not convey to others any rights in said inventions, discoveries, applications, patents or Assigned Patent Properties; and warrants that they have good right to assign the same to Assignee without encumbrance.
4. The terms and covenants of this Patent Assignment Agreement shall inure to the benefit of Assignee, its successors and assigns, and shall be binding upon Assignor and its successors and assigns.

IN WITNESS WHEREOF, Assignor has executed and delivered this instrument to Assignee effective the  
10th day of May, 2002.

ASSIGNOR: New Focus, Inc.

Today's

Date: 10 May 2002

By:

Title:

[Signature]  
Vice President, Operations

STATE OF CALIFORNIA

COUNTY OF Santa Clara ) ss.

On May 10, 2002 before me, Carol Burke, Notary Public, personally  
appeared Nadine Matus, personally known or proved to me on the basis of  
satisfactory evidence to be the person whose name is subscribed to the within instrument and  
acknowledged to me that he/she executed the same in his/her authorized capacity and that by his/her  
signature on the instrument the person, or the entity upon behalf of which the person acted, executed the  
instrument.

Witness my hand and official seal.

Notary Public

Carol Burke



ASSIGNEE: Finisar Corporation

By: *Terry Rawls*

TITLE: President + CEO

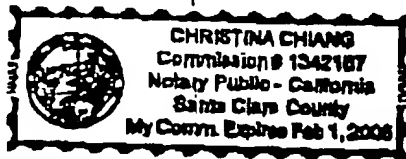
STATE OF CALIFORNIA )  
COUNTY OF Santa Clara ) ss.

On June 5, 2002 before me, Christina Chiang, Notary Public, personally appeared Terry Rawls, personally known or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal.

Notary Public

*Christina Chiang*



Schedule A

Assigned Patent Properties

Passives IP  
US Patents  
Patent #

| Title                          | Inventors                  | Patent<br>Issue<br>Date | Responsible Firm<br>and Attorney    | Status                         |
|--------------------------------|----------------------------|-------------------------|-------------------------------------|--------------------------------|
| 6,049,426<br>(10629-725)       | Ping Xie, Yonglin<br>Huang | 04/11/00                | WSGR, David<br>Abraham              | Maintenance Fee due 10/11/2003 |
| 6,052,228<br>(10629-789)       | Ping Xie, Yonglin<br>Huang | 04/18/00                | WSGR, David<br>Abraham              | Maintenance Fee due 10/18/2003 |
| 6,175,448<br>(10629-728)       | Ping Xie, Yonglin<br>Huang | 01/16/01                | WSGR, David<br>Abraham              | Maintenance Fee due 07/16/2004 |
| 6,212,008<br>(10629-765)       | Ping Xie, Yonglin<br>Huang | 04/03/01                | WSGR, David<br>Abraham              | Maintenance Fee due 10/03/2004 |
| 6,282,025<br>(NFCS-00-<br>001) | Yonglin Huang, Ping<br>Xie | 08/28/01                | Sierra Patent Group,<br>Tim Brisson | Maintenance Fee due 02/28/05   |
| 6,285,499<br>(10629-792)       | Ping Xie, Yonglin<br>Huang | 09/04/01                | WSGR, David<br>Abraham              | Maintenance Fee due 03/04/2005 |
| 6,331,913<br>(NFCS-00-<br>017) | Yonglin Huang, Ping<br>Xie | 12/18/01                | Sierra Patent Group,<br>Tim Brisson | Maintenance Fee due 08/18/2005 |
| 6,363,180<br>(NFCS-89-<br>007) | Peter Chen                 | 03/28/02                | Sierra Patent Group,<br>Tim Brisson | Maintenance Fee due 08/28/2005 |
| 6,373,531<br>(NFCS-00-<br>018) | Yonglin Huang, Ping<br>Xie | 04/18/02                | Sierra Patent Group,<br>Tim Brisson | Maintenance Fee due 10/18/2005 |

|                         |                   |          |          |                               |                                |
|-------------------------|-------------------|----------|----------|-------------------------------|--------------------------------|
| 6,373,604<br>(NFC1P016) | Optical MUX/DEMUX | Ping Xie | 04/16/02 | Cary & Kelly, Charles<br>Cary | Maintenance Fee due 10/16/2005 |
|-------------------------|-------------------|----------|----------|-------------------------------|--------------------------------|

| US Patent Applications Filed |   | Inventors                              | Date Filed | Application # | Responsible Firm and Attorney     |
|------------------------------|---|--|------------|---------------|-----------------------------------|
| Identification #             | Title   |  |            |               |                                   |
| NFI0032<br>(10629-789)       | Compact Optical Isolator Arrays   | Ping Xie, Yonglin Huang                | 07/01/99   | 09/346,639    | WSGR, David Abraham               |
| NFI0042US<br>(5717-01100)    | Integrated Isolator Fused Coupler Method and Apparatus  | Ping Xie, Yonglin Huang, Peter Chen    | 12/10/99   | 09/458,868    | Conley, Rose & Tayon, Noel Kivlin |
| NFCS-99-004                  | Microbend Fused Fiber Coupler Method and Apparatus  | Peter Chen                             | 12/22/99   | 09/471,583    | Sierra Patent Group, Tim Brisson  |
| NFC1P016X1                   | Passive Thermal Stabilization For An Optical MUX/DEMUX  | Ping Xie                               | 01/08/00   | 09/479,455    | Cary & Kelly, Charles Cary        |
| NFCS-99-005                  | Thermal Compensated Compact Bragg Grating Filter  | Peter Chen                             | 02/17/00   | 09/507,119    | Sierra Patent Group, Tim Brisson  |
| NFCS-99-003                  | A Miniature Dense Wavelength Division Multiplexer Using Microbend Couplers                      | Peter Chen                             | 07/07/00   | 09/612,088    | Sierra Patent Group, Tim Brisson  |
| NFCS-00-011                  | Fiber Optical Pigtail Geometry For Improved Extinction Ratio of Polarization Maintaining Fibers | Ping Xie, Yonglin Huang, Sal Tiscareno | 07/17/00   | 09/617,736    | Sierra Patent Group, Tim Brisson  |
| NFC1P018                     | Method and Apparatus for Compensating an Optical Filter   | Brad Bettman, Ping Xie, Peter Chen     | 07/18/00   | 09/617,790    | Cary & Kelly, Charles Cary        |
| NFC1P028                     | A Method And Apparatus For Parallel Optical Processing  | Ping Xie, Sal Tiscareno                | 09/12/00   | 09/659,903    | Cary & Kelly, Charles Cary        |
| NFCS-00-012                  | Improved Polarization Beam Combiner/Splitter  | Ping Xie, Tim Day                      | 09/12/00   | 09/660,258    | Sierra Patent Group, Tim Brisson  |
| 10628-784                    | Optical Circulators Using Beam Angle Turners  | Ping Xie, Yonglin Huang                | 09/08/00   | 09/658,854    | WSGR, David Abraham               |



|                                     |  |  |          |            |                                   |  |
|-------------------------------------|--|--|----------|------------|-----------------------------------|--|
| NFCS-00-016                         | Optical Polarization Beam Combiner/Splitter  | Yonglin Huang, Ping Xia  | 10/30/00 | 09/702,280 | Sierra Patent Group, Tim Brisson  | Reply to Office Action due 07/09/02                                    |
| NFI0032 CNT (10629-795)             | Compact Optical Isolator Arrays  | Ping Xie, Yonglin Huang  | 10/13/00 | 09/687,574 | WSGR, David Abraham               | Reply to Office Action due 07/10/2002                                  |
| NFCS-00-013                         | Precision Optical Filter With A Ball-End Joint   | Ping Xie, Kevin Zhang, Robert Burn                                 | 11/14/00 | 09/713,634 | Sierra Patent Group, Tim Brisson  | N/A  |
| NFC1P02BX1                          | A Method And Apparatus For Parallel Optical Processing For Dual Port Devices                               | Ping Xie, Sai Tiscareno  | 02/26/01 | 09/792,920 | Cary & Kelly, Charles Cary        | N/A  |
| NFC1P039                            | Method And Apparatus For An Optical Filter   | Ping Xie, Simon Wu, Yalan Mao, Wei Wang, Brad Bettman, Nadim Maluf | 06/11/01 | 09/879,026 | Cary & Kelly, Charles Cary        | N/A  |
| NFI0096U (NFCS-00-020, NFCS-01-025) | Dual-Stage Optical Isolator Minimized Polarization Mode Dispersion And Simplified Fabrication Process      | Yonglin Huang, Liren Du, Meng Ma, Shuyun Huang                     | 07/05/01 | 09/900,082 | Sierra Patent Group, Tim Brisson  | N/A  |
| NFI0095U (5717-01301)               | Method And Apparatus For A Polarization Beam Splitter/Combiner With An Integrated Optical Isolator         | Yonglin Huang, Shuqing (Mary) Ma, Meng (Maggie) Ma                 | 07/05/01 | 09/800,091 | Conley, Rose & Tayon, Noel Kivlin | N/A  |
| NFCS-00-014                         | Optical Isolator With Reduced Insertion Loss And Minimized Polarization Mode Dispersion                    | Yonglin Huang, Ping Xie, Xin Luo, Liren Du                         | 07/05/01 | 09/800,713 | Sierra Patent Group, Tim Brisson  | N/A  |
| NFC1P039CI P                        | Method And Apparatus For An Optical Filter   | Ping Xie, Simon Wu, Yalan Mao, Wei Wang, Brad Bettman, Nadim Maluf | 08/31/01 | 09/844,037 | Cary & Kelly, Charles Cary        | N/A  |
| NFCS-01-027                         | Method And Apparatus For Precision Tuning An Optical Filter Using A Ball-End Joint                         | Kevin Zhang, Ping Xie  | 08/28/01 | 09/841,474 | Sierra Patent Group, Tim Brisson  | Foreign Filing due 08/28/02  |
| 18629-802                           | Compact Polarization Insensitive Structures with Simplified Structure and Low Polarization Mode Dispersion | Ping Xie, Yonglin Huang  | 08/31/01 | 09/844,593 | WSGR, David Abraham               | Received Notice of Publication 03/12/2002, Pub. No. US-2002-0024729-A1 |

|                               |   |  |          |            |                                   |                             |
|-------------------------------|---|--|----------|------------|-----------------------------------|-----------------------------|
| NFI0130US<br>(50923-2000-200) | Mismatched Mode Field Diameter Device   | Ping Xie, Kevin Zhang                    | 10/05/01 | 09/072,517 | MOFO, Steve Durant                | Foreign Filing due 10/05/02 |
| NFI0131U<br>(50923-2000-100)  | Integrated Pump Combining Module  | Ping Xie                                 | 10/05/01 | 09/972,527 | MOFO, Steve Durant                | Foreign Filing due 10/05/02 |
| NFI0085<br>(5717-01601)       | Fiber Optical Devices With Extra High Power Handling Capability                         | Yonglin Huang, Kevin Zhang, Ping Xie     | 01/09/02 | 10/042,935 | Conley, Rose & Tayon, Noel Kivlin | N/A                         |
| NFI0069<br>(5717-01401)       | Optical Polarization Beam Splitter/Combiner With Isolation In The Backward Optical Path | Yonglin Huang, Qi (Brian) Deng, Liran Du | 02/14/02 | 10/075,333 | Conley, Rose & Tayon, Noel Kivlin | N/A                         |

Responsible Firm  
and Attorney

#### Foreign Applications Filled

| 10629-785                     | Compact Polarization Insensitive Circulators With Simplified Structure and Low Polarization Mode Dispersion (also covers Circulators Using Beam Angle Turners) | Ping Xie, Yonglin Huang | 08/17/99 | PCT/US99/18739                 | PCT Application      | WSGR, David Abraham          | Application filed in Japan and Europe |
|-------------------------------|--|-------------------------|----------|--------------------------------|----------------------|------------------------------|---------------------------------------|
| 10629-800<br>P010800EP<br>MUH | Compact Polarization Insensitive Circulators With Simplified Structure and Low Polarization Mode Dispersion  | Ping Xie, Yonglin Huang | 08/17/99 | 99842271.0                     | European Application | WSGR, David Abraham          | N/A                                   |
| 10629-799                     | Compact Polarization Insensitive Circulators With Simplified Structure and Low Polarization Mode Dispersion  | Ping Xie, Yonglin Huang |          | 2000-565436                    | Japanese Application | WSGR, David Abraham          | N/A                                   |
| 10629-790                     | Compact Polarization Insensitive Circulators With Simplified Structure and Low Polarization Mode Dispersion  | Ping Xie, Yonglin Huang | 10/12/99 | PCT/US99/23759                 | PCT Application      | WSGR, David Abraham          | Application filed in Europe           |
| P011386EP<br>MUH ZXM          | Compact Polarization Insensitive Circulators With Simplified Structure and Low Polarization Mode Dispersion  | Ping Xie, Yonglin Huang | 05/11/01 | 99869250.2<br>(PCT/US99/23759) | European Application | D. Young & Co., Miles Haines | Annually due Oct. 2002                |
| NFC1P016W<br>O                | Optical MUX/DEMUX  | Ping Xie                | 08/27/00 | PCT/US00/41022                 | PCT Application      | D. Young & Co., Miles        | N/A                                   |

|                                    |   |  |          |                              |                         |  |  |
|------------------------------------|---|--|----------|------------------------------|-------------------------|--|--|
| P011438EP<br>MJH ZXW               | Optical MUX/DEMUX   | Ping Xie                                     | 05/08/01 | 00992467.1<br>PCT/US00/41022 | European<br>Application | Haines<br>D. Young &<br>Co., Miles<br>Haines | Annully due<br>Sep. 2002   |
| 5717-01101<br>(NFCS-99-<br>008PCT) | Integrated Isolator Fused<br>Coupler Method And Apparatus   | Ping Xie, Yonglin<br>Huang, Peter Chen       | 12/05/00 | PCT/US00/33051               | PCT Application         | Conley, Rose<br>& Tayon, Noel<br>Kvlin       | National<br>Phase filing<br>due 06/10/02   |
| NFI0051PCT<br>(NFCS-00-<br>011PCT) | Fiber Optical Pigtail Geometry<br>For Improved Extinction Ratio of<br>Polarization Maintaining Fibers | Ping Xie, Yonglin<br>Huang, Sal Tiscareno    | 07/17/01 | PCT/US01/22762               | PCT Application         | Sierra Patent<br>Group, Tim<br>Brisson       | File<br>response to<br>opinions if<br>any by<br>08/17/02;<br>Ch. II,<br>National<br>Phase Filing<br>due 1 month,<br>12/17/02           |
| NFI0058PCT<br>(NFCS-99-<br>013PCT) | Precision Optical Filter With<br>Ball-End Joint   | Ping Xie, Kevin<br>Zhang, Robert Burn        | 11/09/01 | PCT/US01/51189               | PCT Application         | Sierra Patent<br>Group, Tim<br>Brisson       | Correct<br>Defects due<br>05/04/2002;<br>Ch. II<br>Demand due<br>06/14/02;<br>File<br>response to<br>opinions if<br>any by<br>12/14/02 |
| NFCS-00-<br>014PCT                 | Optical Isolator With Reduced<br>Insertion Loss And Minimized<br>Polarization Mode Dispersion         | Yonglin Huang, Ping<br>Xie, Xin Luo, Lren Du | 10/05/01 | PCT/US01/31680               | PCT Application         | Sierra Patent<br>Group, Tim<br>Brisson       | Ch. II<br>Demand due<br>05/13/02;<br>File<br>response to<br>opinions if<br>any by<br>11/13/02  |

|  |  |   |          |                |                 |   |  |
|--|--|---|----------|----------------|-----------------|---|--|
| NFI0095U<br>(5717-01302)<br>(NFC5-01-024)    | Method And Apparatus For A Polarization Beam Splitter/Combiner With An Integrated Optical Isolator | Yonglin Huang,<br>Shuqing (Mary) Ma,<br>Meng (Maggie) Ma                    | 01/10/02 | PCT/US02/00901 | PCT Application | Conley, Rose<br>& Tayon, Noel<br>Kivlin | Ch. II<br>Demand due<br>08/10/02; if<br>Ch. II<br>Demand not<br>filed then<br>National<br>Phase filing<br>due 09/10/02 |
| NFI0093CI<br>PWO                             | Method And Apparatus For An Optical Filter   | Ping Xie, Simon Wu,<br>Yalan Mao, Wei<br>Wang, Brad Beltman,<br>Nadim Matuf | 02/08/02 | PCT/US02/03717 | PCT Application | Cary & Kelly,<br>Charles Cary           | Ch. II<br>Demand due<br>09/14/02; if<br>Ch. II<br>Demand not<br>filed then<br>National<br>Phase filing<br>due 10/14/02 |
| NFI0069PCT<br>(5717-01402)<br>(NFC5-01-025P) | Optical Polarization Beam Splitter/Combiner With Isolation In The Backward Optical Path            | Yonglin Huang, Qi<br>(Brian) Deng, Liren<br>Du                              | 02/14/02 | PCT/US02/04215 | PCT Application | Conley, Rose<br>& Tayon, Noel<br>Kivlin | Ch. II<br>Demand due<br>09/14/02; if<br>Ch. II<br>Demand not<br>filed then<br>National<br>Phase filing<br>due 10/14/02 |

#### Provisional Applications

|                              |  |   |          |                  |                         |                           |
|------------------------------|--|---|----------|------------------|-------------------------|---------------------------|
| NFI0039P                     | Low Dispersion, Low Channel Cross-Talk Interleaver | Ping Xie, Simon Wu,<br>Yalan Mao, Wei<br>Wang, Brad Beltman | 07/05/01 | 60/303,705       | Provisional Application | Cary & Kelly Charles Cary |
| NFI0150P<br>(50923-3000-500) | Integrated WDM Coupler For Duplex Communication    | Yonglin Huang,<br>Shuqing Ma, Qi<br>Deng, Bing Zhang        | 03/16/02 | Not yet assigned | Provisional Application | MOFO, Steve Durant        |

Invention Disclosures

| NFI0148<br>(NFC1P038X<br>t)    | Method And Apparatus For An<br>Optical Multiplexer And<br>Demultiplexer With An Optical<br>Processing Loop | Ping Xie, Simon Wu, Haisheng Rong, Kevin Zhang,<br>Yalan Mao, Wei Wang, Brad Bettman   | Disclosure<br>(application has<br>been drafted) | Cary & Kelly,<br>Charles Cary | May want to<br>claim priority<br>to<br>Provisional<br>60/303,705<br>filed<br>07/05/01 or<br>Utility<br>09/879,028<br>filed<br>08/11/01 and<br>09/944,037<br>filed<br>08/31/01 |
|--------------------------------|--|--|---|-------------------------------|---|
| NFI0150<br>(50923-2000-<br>500 | Integrated WDM Coupler For<br>Duplex Communication   | Yonglin Huang, Shuqing Ma, Qi Deng, Bing Zhang,<br>Liren Du                            | Disclosure<br>(application has<br>been drafted) | MOFO, Steve<br>Durant         | Will want to<br>claim priority<br>to<br>Provisional<br>filed on<br>03/15/02   |
| NFI0162                        | Hybrid Cell  | Tengda Du, Xin Luo, Ping Xie, Evan Green   | Disclosure                                      |                               |   |
| NFI0163                        | PM Coupler   | Jian He, Ping Xie  | Disclosure                                      |                               |   |
| NFI0164                        | PDL Loop   | Jian He, Ping Xie, Chester Chien   | Disclosure                                      |                               |   |
| NFI0165                        | High Channel Isolation WDM   | Zhicheng Li, Yingsong Wang   | Disclosure                                      |                               |   |
| NFI0166                        | Array PBC  | Qi Deng, Liren Du, Shuqing (Mary) Ma, Bing Zhang,<br>Xiwen Wang, Yonglin Huang         | Disclosure                                      |                               |   |
| NFI0167                        | OADM and Array OADM  | Liren Du, Xiwen Wang, Bing Zhang, Qi (Brian) Deng,<br>Shuqing (Mary) Ma, Yonglin Huang | Disclosure                                      |                               |   |

|         |   |   |            |  |  |
|---------|---|---|------------|--|--|
| NF10188 | Optical Polarization Beam Combiner and Isolator Array Polarization Beam Combiner and Isolator | QI (Brian) Deng, Xiwen Wang, Bing Zhang, Liren Du, Shuqing (Mary) Ma, Yanglin Huang | Disclosure |  |  |
| NF10169 | Collimator with Ball-Joint for Better Optical Alignment and Bonding                           | QI (Brian) Deng   | Disclosure |  |  |